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Entry inhibitors as topical microbicides to prevent HIV-1 sexual transmission

John P Moore*

Address: Professor of Microbiology and Immunology, Weill Cornell Medical College, New York, New York, 10021, USA

* Corresponding author

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Specific inhibitors of HIV-1 attachment, fusion and entry are one approach to a topical microbicide. We have been evaluating several such compounds (small molecules and peptides) targeting several different stages of the fusion process, for their abilities to prevent experimental infection of rhesus macaques with various SHIVs, after vaginal challenge. These results will be presented and discussed, in the context of developing a practical product for use in women and men.